



Module Description

Module name	Basics of Multimedia
Module level, if applicable	Bachelor of Informatics
Code, if applicable	21D12110702
Subtitle, if applicable	-
Course, if applicable	-
Semester(s) in which the module is taught	2 nd
Person responsible for the module	Dr. Indrabayu, S.T., M.T., M.Bus.Sys.
Lecturer	1. Dr. Indrabayu, S.T., M.T., M.Bus.Sys. 2. Dr. Eng. Wardi, ST.,M.Eng. 3. Ais Prayogi A. ST. M.Eng.
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a compulsory course and offered in the 2 nd semester.
Type of teaching, contact hours	Teaching methods: [group discussion], [collaborative learning], [project-based learning] Teaching forms: [lecture], [tutoria] CH : 08.00 - 16.00
Workload	For this course, students are required to meet a minimum of 90.75 hours in one semester, which consist of: - 26.67 hours for lecture, - 32 hours for structured assignments, - 32 hours for private study.
Credit points	2 credit points (equivalent with 3.4 ECTS)



<p>Requirements according to the examination regulations</p>	<p>Students have participated in at least 80% of the learning activities (Academic Regulations, Chapter VII)</p>
<p>Recommended prerequisites</p>	<p>Digital System</p>
<p>Module objectives/intended learning outcomes</p>	<p>After completing the course, Students are able:</p> <p>Intended Learning Outcomes (ILO):</p> <p>ILO 1 : Have the knowledge of fundamental in Computing Science that includes basic theory and concepts of computer science, Mathematics and Statistics, Programming Algorithm, Software Engineering, Information Management and Digital Resilience, also the advance topics of either Artificial Intelligence, Data Science, Computer Network, Cloud Computing or Internet of Things</p> <p>ILO 6 : Perform effectively in a team, either as a member or leader, in activities related to the program's discipline.</p> <p>Course Learning Objective (CLO):</p> <p>After attending the Basic Multimedia course for one semester, students will be able to know theoretical knowledge, concepts in the multimedia field, specifically which include digital multimedia data representation, characteristics, acquisition and storage processes. Students are also expected to be able to communicate creative ideas and ideas in digital media formats.</p> <p>Sub CLO :</p> <p>ILO 1 => CLO 1: Students will be able to recognize, know, understand and define multimedia concepts, the history and recent developments in multimedia.</p> <p>ILO 1 => CLO 2: Students will be able to recognize, know and understand the concept of digital data in the form of text, images, sound, video, and animation related to the characteristics, storage, and processing processes with computer-based systems.</p> <p>ILO 1 => CLO 3: Students will be able to recognize, know and understand the latest technology and research trends in the use of multimedia, especially visual and auditory media.</p>



	<p>ILO 1 => CLO 4: Students will be able to recognize, know and understand concepts in multimedia distribution in the internet network.</p> <p>ILO 6 => CLO 5: Students will be able to create digital media content to convey creative ideas and ideas.</p>
Content	<p>Students will learn about :</p> <ol style="list-style-type: none"> 1. The concept, development and multimedia utilization 2. Digital representation, processing and storage for digital data: <ol style="list-style-type: none"> a. Text b. Pictures and color models c. Audio d. Videos e. Animation 3. Technical Trends and Research on Multimedia Usage <ol style="list-style-type: none"> a. Digital Auditory Media b. Digital Visual Media 4. Multimedia Application Development
Forms of Assessment	<p>Assessment techniques: [observation], [participation], [written test]</p> <p>Assessment forms: [quiz], [midterm exam], [assignment],-[presentation]</p> <p>Quiz = 10%, midterm exam =30%, Assignment =30%, Presentation = 30%</p> <p>CLO 1 => ILO 1: 20% (Quiz and MidTerm: written test)</p> <p>CLO 2 => ILO 1: 20%(Quiz and MidTerm: written test)</p> <p>CLO 3 => ILO 1: 15%(Assignment: participation)</p> <p>CLO 4 => ILO 1 : 15% (Assignment: participation)</p> <p>CLO 5 => ILO 6: 30% (Presentation: observation)</p>
Study and examination requirements and forms of examination	<p>Study and examination requirements:</p> <ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. <p>Form of examination: Written exam: Essay</p>
Media employed	Video conference, slide presentation, Learning Management System



	(LMS).
Reading list	<p>Main :</p> <p>[1] Fundamentals of Multimedia, Ze-Nian Li, 2014</p> <p>[2] Multimedia Systems Algorithms: Standards and Industry Practices, Parag Havaladar, 2009</p> <p>[3] Handbook of Multimedia for Digital Entertainment and Arts, Springer, 2009</p>